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FILE 'REGISTRY' ENTERED AT 14:07:37 ON 25 MAR 96  
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STRUCTURE FILE UPDATES: 24 MAR 96 HIGHEST RN 174510-32-8  
DICTIONARY FILE UPDATES: 24 MAR 96 HIGHEST RN 174510-32-8

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

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L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 1996 ACS

RN 24280-93-1 REGISTRY

CN 4-Hexenoic acid, 6-(1,3-dihydro-4-hydroxy-6-methoxy-7-methyl-3-oxo-5-isobenzofuranyl)-4-methyl-, (E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4-Hexenoic acid, 6-(4-hydroxy-6-methoxy-7-methyl-3-oxo-5-phthalanyl)-4-methyl-, (E)- (8CI)

OTHER NAMES:

CN **Mycophenolic acid**

CN NSC 129185

FS STEREOSEARCH

MF C17 H20 O6

CI COM

LC STN Files: AIDSLINE, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CAPREVIEWS, CASREACT, CEN, CHEMCATS, CHEMLIST, CJACS, CSCHEM, DDFU, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, HODOC\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-CCOHS, NAPRALERT, PHAR, PNI, PROMT, RTECS\*, TOXLINE, TOXLIT, USAN, USPATFULL

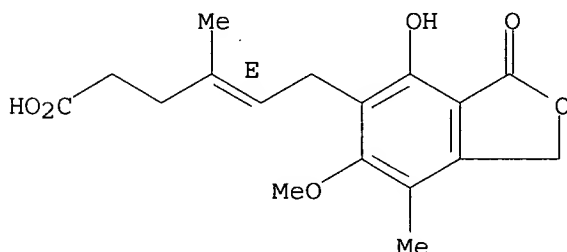
(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*, WHO

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

DES 2:E

Double bond geometry as shown.



350 REFERENCES IN FILE CA (1967 TO DATE)

16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

353 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:164692

REFERENCE 2: 124:164682

REFERENCE 3: 124:164239

REFERENCE 4: 124:164156

REFERENCE 5: 124:163997

REFERENCE 6: 124:163996

REFERENCE 7: 124:139508

REFERENCE 8: 124:110712

REFERENCE 9: 124:97764

REFERENCE 10: 124:86709

=> d que 16

L2 7 SEA FILE=REGISTRY 24280-93-1/CRN  
L4 6 SEA FILE=REGISTRY ("MYCOPHENOLIC ACID ACETATE"/CN OR "MYCOPHENOLIC ACID CHLORIDE"/CN OR "MYCOPHENOLIC ACID DISODIUM SALT"/CN OR "MYCOPHENOLIC ACID GLUCOSIDURONATE"/CN OR "MYCOPHENOLIC ACID GLUCURONIDE"/CN OR "MYCOPHENOLIC ACID MONOSODIUM SALT"/CN OR "MYCOPHENOLIC ACID, METHYL ESTER"/CN)  
L6 12 SEA FILE=REGISTRY L2 OR L4

=> d his 17-

(FILE 'HCAPLUS' ENTERED AT 13:50:36 ON 25 MAR 96)

L7 595 S L1 OR L1/D OR ?MYCOPHENOL?/IA  
L8 1 S HAIR/BI,AB AND L7  
L9 38 S L6 OR L6/D  
L10 1 S L9 AND HAIR/BI,AB  
L11 1 S L8 OR L10  
E AHLUWALIA G/AU  
L12 53 S E3-E9  
E STYCZYNSKI P/AU  
L13 9 S E3-E8  
E SHANDER D/AU  
L14 22 S E3,E4  
L15 76 S L12 OR L13 OR L14  
L16 2 S L15 AND L7  
L17 0 S L15 AND L9  
L18 0 S L16 AND HAIR/BI,AB

FILE 'BIOSIS' ENTERED AT 13:53:28 ON 25 MAR 96

L19 548 S L1 OR L1/D OR L6 OR L6/D OR MYCOPHENOL? OR MYCO PHENOL?  
L20 0 S L19 AND HAIR  
E AHLUWALIA G/AU  
L21 68 S E3,E4  
E STYCZYNSKI P/AU  
L22 11 S E2,E12,E13  
E SHANDER D/AU  
L23 21 S E3,E4  
L24 100 S L21 OR L22 OR L23  
L25 3 S L24 AND L19  
L26 1 S L24 AND HAIR  
L27 0 S L25 AND L26

FILE 'HCAPLUS' ENTERED AT 13:55:43 ON 25 MAR 96

L28 16 S L15 AND HAIR/BI,AB

FILE 'MEDLINE' ENTERED AT 13:56:16 ON 25 MAR 96

L29 486 S L1 OR L6 OR MYCOPHENOL? OR RS() (61443 OR 61 443)  
L30 0 S L29 AND (HAIR+NT/CT OR HAIR PREPARATIONS+NT/CT OR HAIR  
L31 0 S L29 AND HAIR  
E AHLUWALIA G/AU  
L32 46 S E3,E4  
E STYCZYNSKI P/AU  
L33 14 S E3,E4  
E SHANDER D/AU  
L34 24 S E3  
L35 84 S L32 OR L33 OR L34  
L36 2 S L35 AND L29  
L37 0 S L35 AND (HAIR+NT/CT OR HAIR PREPARATIONS+NT/CT OR HAIR  
L38 0 S L35 AND HAIR

FILE 'EMBASE' ENTERED AT 13:58:36 ON 25 MAR 96

L39 733 S L1 OR L6 OR MYCOPHENOL? OR RS() (61443 OR 61 443)  
L40 8 S L39 AND (HAIR+NT/CT OR HAIR DISEASE+NT/CT OR HAIR GROWT  
L41 645 S MYCOPHENOL?/CT  
L42 0 S L41/MAJ AND L40  
E AHLUWALIA G/AU  
L43 41 S E3,E4  
E STYCZYNSKI P/AU  
L44 9 S E10,E11  
E SHANDER D/AU  
L45 18 S E3  
L46 68 S L43 OR L44 OR L45  
L47 2 S L46 AND L39  
L48 2 S L46 AND HAIR  
L49 0 S L48 AND L39

FILE 'BIOBUSINESS' ENTERED AT 14:03:40 ON 25 MAR 96

L50 45 S L1 OR L6 OR MYCOPHENOL? OR MYCO PHENOL?  
L51 0 S L50 AND HAIR

FILE 'PROMT' ENTERED AT 14:04:15 ON 25 MAR 96

L52 36 S L1 OR L6 OR MYCOPHENOL? OR MYCO PHENOL?  
L53 0 S L52 AND HAIR

FILE 'WPIDS' ENTERED AT 14:04:36 ON 25 MAR 96

L54 95 S ?MYCOPHENOL? OR ?MYCO PHENOL?  
L55 1 S L54 AND HAIR  
L56 1 S L54 AND P93###/M0,M1,M2,M3,M4,M5,M6  
L57 1 S L55 OR L56

FILE 'BIOSIS, HCAPLUS' ENTERED AT 14:07:24 ON 25 MAR 96

L58 18 DUP REM L26 L28 L11 (0 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 14:07:37 ON 25 MAR 96

=> fil wpids

FILE 'WPIDS' ENTERED AT 14:07:56 ON 25 MAR 96  
COPYRIGHT (C) 1996 DERWENT INFORMATION LTD

FILE LAST UPDATED: 22 MAR 96 <960322/UP>  
>>>UPDATE WEEKS:  
MOST RECENT DERWENT WEEK 9612 <199612/DW>  
DERWENT WEEK FOR CHEMICAL CODING: 9551  
DERWENT WEEK FOR POLYMER INDEXING: 9608  
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE  
>>> DERWENT POLYMER INDEXING THESAURUS AVAILABLE IN FIELD /PLE <<<  
>>> PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY <<<

=> d 157 bib abs

L57 ANSWER 1 OF 1 WPIDS COPYRIGHT 1996 DERWENT INFORMATION LTD  
AN 95-196690 [26] WPIDS  
DNC C95-091099  
TI **Hair** growth promoter contg. **mycophenolic** acid or  
derivs. - halts abnormal **hair** loss in premature alopecia  
and alopecia areata.  
DC B02 D21 E13  
PA (IMMO) IMMUNO JAPAN KK  
CYC 1  
PI JP 07112923 A 950502 (9526)\* 5 pp  
ADT JP 07112923 A JP 93-289710 931015  
PRAI JP 93-289710 931015  
AN 95-196690 [26] WPIDS  
AB JP07112923 A UPAB: 950705  
**Hair** growth promoting compsns. contg. **mycophenolic**  
acid of formula (I) or its derivs. of formula (II) as the active  
ingredients, are new: R1 = H or OH; R2 = H or Me; and R3 = H or  
acetyl.

ADVANTAGE - The compsn. is safe, and can rapidly halt abnormal hair loss in premature alopecia and alopecia areata, and prevent epilation and accelerate hair restoration in pets, e.g. dogs and cats.  
Dwg.0/0

=> fil biosis

FILE 'BIOSIS' ENTERED AT 14:08:09 ON 25 MAR 96  
COPYRIGHT (C) 1996 BIOSIS(R)

FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 12 March 1996 (960312/ED)  
CAS REGISTRY NUMBERS (R) LAST ADDED: 13 March 1996 (960313/UP)

=> d l26 bib ab

L26 ANSWER 1 OF 1 BIOSIS COPYRIGHT 1996 BIOSIS  
AN 88:142892 BIOSIS  
DN BR34:67969  
TI **HAIR** GROWTH MODIFICATION WITH ORNITHINE DECARBOXYLASE INHIBITORS.  
AU **SHANDER D**  
CS 5 MEADOWGRASS CT., GAITHERSBURG, MD. 20878, USA.  
PI US 4720489 19 Jan 1988  
SO OFF GAZ U S PAT TRADEMARK OFF PAT 1086 (3). 1988. 1378-1379. CODEN: OGUPE7 ISSN: 0098-1133  
DT Patent  
LA English

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6  
←

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=> fil hcaplus

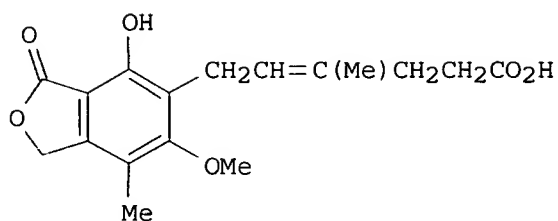
FILE 'HCAPLUS' ENTERED AT 14:08:41 ON 25 MAR 96  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
COPYRIGHT (C) 1996 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1967 - 25 Mar 1996 VOL 124 ISS 13  
FILE LAST UPDATED: 23 Mar 1996 (960323/ED)

Roles are now available from 1967 to date.

=> d l11 all

L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 1996 ACS  
AN 1995:668449 HCAPLUS  
DN 123:92871  
TI **Hair** growth-stimulating compositions containing **mycophenolic** acid or its derivatives  
IN Tamura, Gakuzo; Ando, Kunio; Nakamura, Tetsuo  
PA Imuno Japan Kk, Japan  
SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
PI JP 07112923 A2 950502 Heisei  
AI JP 93-289710 931015  
DT Patent  
LA Japanese  
IC ICM A61K007-06  
ICS A61K031-365  
ICA C07D307-88  
CC 62-3 (Essential Oils and Cosmetics)  
OS MARPAT 123:92871  
GI



I

AB **Hair** growth stimulants, useful for topical application, contain **mycophenolic acid** (I) or its derivs. as active ingredients. A compn. contg. I 0.25, menthol 0.1, CM-cellulose Na salt 0.5 g, triethanolamine, and 50% EtOH to 100 mL stimulated the growth of **hair** in rabbits.

ST **hair** growth stimulant **mycophenolate**

IT Alopecia  
(treatment of; **hair** growth stimulants contg. **mycophenolic acids**)

IT **Hair** preparations  
(growth stimulants, **hair** growth stimulants contg. **mycophenolic acids**)

IT 24280-93-1, **Mycophenolic acid** 31377-08-9  
126840-53-7, Phthalexin  
RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)  
(**hair** growth stimulants contg. **mycophenolic acids**)

=&gt; d 128 1-16 bib ab ct

L28 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1995:928370 HCAPLUS

DN 123:321728

TI Ornithine aminotransferase inhibitors for inhibition of unwanted **hair** growthIN **Shander, Douglas**; Funkhouser, Margaret G.

PA Handleman, Joseph H., USA

SO PCT Int. Appl., 15 pp.

CODEN: PIXXD2

PI WO 9524181 A1 950914

DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG

AI WO 95-US2915 950308

PRAI US 94-212012 940311

DT Patent

LA English

AB Mammalian **hair** growth is reduced by applying to the skin a compn. including an inhibitor of ornithine aminotransferase. Topical application of a soln. contg. 5% 5-fluoromethylornithine in a vehicle comprising deionized water 68, abs. ethanol 16, propylene glycol 5, dipropylene glycol 5, benzyl alc. 4, and propylene carbonate 2%, reduced **hair** growth by .apprx.66% in male Golden Syrian hamsters.

CT Cosmetics

CT **Hair**

CT Hirsutism

L28 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1995:926476 HCAPLUS

DN 123:321734

TI Cysteine synthetic pathway enzyme inhibitors to retard unwanted **hair** growth

IN Ahluwalia, Gurpreet S.; Shander, Douglas  
PA Handleman, Joseph H., USA  
SO PCT Int. Appl., 23 pp.  
CODEN: PIXXD2  
PI WO 9524885 A1 950921  
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,  
GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,  
MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,  
TT, UA  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 95-US2902 950310  
PRAI US 94-213954 940316  
DT Patent  
LA English  
AB Mammalian **hair** growth is reduced by applying to the skin  
an inhibitor of a cysteine synthetic pathway enzyme, such as  
methionine S-adenosyltransferase, L-homocysteine  
S-methyltransferase, S-adenosylhomocysteine hydrolase, cystathionine  
synthase, and cystathionase. For example, a topical compn.  
comprised 5% 3-deazaneplanocin in a vehicle contg. ethanol 16,  
propylene glycol 5, dipropylene glycol 5, benzyl alc. 4, propylene  
carbonate 2, and pure water 68%. The compn. inhibited **hair**  
mass by 86.65% in male Golden Syrian hamster model.  
CT Cosmetics  
CT **Hair**  
CT Hirsutism

L28 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 1996 ACS  
AN 1995:926475 HCAPLUS  
DN 123:321733  
TI Nitric oxide synthetase inhibitors for inhibition of unwanted  
**hair** growth  
IN Ahluwalia, Gurpreet S.; Shander, Douglas; Henry,  
James P.  
PA Handelman, Joseph H., USA  
SO PCT Int. Appl., 12 pp.  
CODEN: PIXXD2  
PI WO 9524884 A1 950921  
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,  
GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG,  
MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,  
TM, TT  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 95-US2898 950310  
PRAI US 94-213931 940316  
DT Patent  
LA English  
AB Mammalian **hair** growth is reduced by applying to the skin  
an inhibitor of nitric oxide synthetase. A topical compn. contains  
1-30 % of the inhibitor, such as NG-methyl-L-arginine to provide a  
redn. in **hair** growth by .gtoreq.30%, when tested in the  
Golden Syrian hamster assay.  
CT Cosmetics  
CT **Hair**  
CT Hirsutism

L28 ANSWER 4 OF 16 HCAPLUS COPYRIGHT 1996 ACS  
AN 1995:872304 HCAPLUS  
DN 123:265813  
TI Method of reducing the rate of **hair** growth with asparagine  
synthetase inhibitors  
IN Ahluwalia, Gurpreet S.  
PA USA  
SO U.S., 3 pp. Cont.-in-part of U.S. Ser. No. 788,168, abandoned.  
CODEN: USXXAM  
PI US 5444090 A 950822  
AI US 94-212584 940311

PRAI US 91-788168 911105

DT Patent

LA English

AB The rate and character of mammalian **hair** growth is altered by the topical application to the skin of a compn. contg. an org. inhibitor of asparagine synthetase. The inhibitors include guanidinosuccinic acid, oxaloacetic acid, cysteinesulfinic acid, di-Et aminomalonate, and ethacrynic acid. A topical compn. is particularly effective to reduce the androgen-stimulated **hair** growth. The compn. provides a redn. in **hair** growth by .gtoreq.23.3% when tested in the Golden Syrian hamster assay.

CT Cosmetics

CT **Hair**

CT Hirsutism

L28 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1995:324868 HCAPLUS

DN 122:89132

TI Inhibitors of 5-lipoxygenase for prevention of **hair** growth

IN **Ahluwalia, Gurpreet S.; Shander, Douglas**

PA Handelman, Joseph, H., USA

SO PCT Int. Appl., 12 pp.

CODEN: PIXXD2

PI WO 9427563 A1 941208

DS W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG

AI WO 94-US5361 940516

PRAI US 93-68256 930528

DT Patent

LA English

AB Mammalian **hair** growth is inhibited by applying to the skin a compn. including an inhibitor of 5-lipoxygenase. The enzyme inhibitor is selected from quercetin, DL-.alpha.-tocopherol, apigenin, Pr gallate, nordihydroguaiaretic acid, and caffeic acid. The effective amts. of the compd. range from 100 to 3000 .mu.g per cm2 of skin and the compn. is applied once or twice for at least 3 mo to achieve a perceived redn. in **hair** growth.

CT Cosmetics

CT **Hair**

CT Hirsutism

L28 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1995:320081 HCAPLUS

DN 122:89083

TI Inhibition of **hair** growth with cyclooxygenase inhibitors

IN **Ahluwalia, Gurpreet S.; Shander, Douglas**

PA Handelman, Joseph H., USA

SO PCT Int. Appl., 14 pp.

CODEN: PIXXD2

PI WO 9427586 A1 941208

DS W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KG, KP, KR, KZ, LK, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG

AI WO 94-US5360 940516

PRAI US 93-68257 930528

DT Patent

LA English

AB Mammalian **hair** growth is reduced by applying to the skin a compn. including an inhibitor of cyclooxygenase. A formulation contg. 20% indomethacin reduced **hair** growth in hamster after 13 application (1 application/day for 5 days a wk) by 78.43%.

CT Carboxylic acids, biological studies

CT **Hair** preparations

CT Inflammation inhibitors

L28 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1994:686338 HCAPLUS

DN 121:286338

TI Topical composition for inhibiting **hair** growth containing  
.alpha.-(difluoromethyl)ornithine

IN Boxall, Brian Alfred; Amery, Geoffrey Wilfred; **Ahluwalia,**  
**Gurpreet S.**

PA Handelman, Joseph H., USA

SO PCT Int. Appl., 13 pp.

CODEN: PIXXD2

PI WO 9421216 A1 940929

DS W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP,  
KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, SK,  
UA, US, VN

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NL, PT, SE, SN, TD, TG

AI WO 93-US2684 930319

DT Patent

LA English

AB A topical compn. for inhibiting mammalian **hair** growth,  
particularly human beard **hair** growth (including  
hirsutism), comprises a water-sol., **hair**-growth-inhibiting  
agent, .alpha.-(difluoromethyl)ornithine (I) dispersed in an  
oil-in-water emulsion in the form of a lotion or cream. A topical  
emulsion contained water 80.84, glyceryl stearate 4.24, PEG stearate  
4.09, cetearyl alc. 3.05, ceteareth-20 2.50, mineral oil 2.22,  
stearyl alc. 1.67, dimethicone 0.56, I 10%, and NaOH q.s. pH=3.5.  
The **hair** growth inhibition of the above emulsion in  
hamster was 87.6% as compared to control contg. no I.

CT Paraffin oils

CT Alcohols, biological studies

CT Alcohols, biological studies

CT Cosmetics

CT **Hair** preparations

L28 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1994:541665 HCAPLUS

DN 121:141665

TI Reduction of **hair** growth employing sulfhydryl reactive  
compounds

IN **Shander, Douglas; Ahluwalia, Gurpreet S.;**

Mark-Del Grosso, Diana

PA Handelman, Joseph H., USA

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

PI WO 9414428 A1 940707

DS W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP,  
KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU,  
SD, SE, SK, UA, US, UZ, VN

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG

AI WO 93-US12266 931216

PRAI US 92-995037 921222

DT Patent

LA English

AB A method of reducing the rate of mammalian **hair** growth  
includes topically applying a compn. contg. a SH reactive compd. to  
the skin. The SH reactive compds., such as cysteamine,  
D-penicillamine, captopril, and thiosalicylic acid, penetrate into  
**hair** follicles in the skin and reacts with free cysteine in  
the **hair** follicle cells to form cysteine-mixed disulfides.

CT **Hair**

CT Mercapto compounds

CT Thiols, biological studies

CT Head

L28 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 1996 ACS



AN 1994:491309 HCAPLUS  
DN 121:91309  
TI Pantothenic acid and pantothenyl alcohol for inhibition of  
hair growth  
IN Ahluwalia, Gurpreet S.; Shander, Douglas  
PA USA  
SO PCT Int. Appl., 16 pp.  
CODEN: PIXXD2  
PI WO 9410967 A1 940526  
DS W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP,  
KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU,  
SD, SE, SK, UA, US, UZ, VN  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG  
AI WO 93-US10920 931110  
PRAI US 92-976446 921113  
DT Patent  
LA English  
AB Mammalian hair growth is cosmetically reduced by applying  
to the skin a compn. including pantothenic acid or pantothenyl alc.  
(1-30%).  
CT Hair preparations

L28 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 1996 ACS  
AN 1993:434298 HCAPLUS  
DN 119:34298  
TI Alteration of rate and character of hair growth  
IN Handelsman, Joseph H.; Ahluwalia, Gurpreet S.  
PA USA  
SO PCT Int. Appl., 9 pp.  
CODEN: PIXXD2  
PI WO 9308687 A1 930513  
DS W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP,  
KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, UA, US  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IE, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG  
AI WO 92-US9438 921104  
PRAI US 91-788168 911105  
DT Patent  
LA English  
AB The rate and character of mammalian hair growth are  
altered by the topical application to the skin of a compn. contg. an  
org. inhibitor of the enzyme L-asparagine synthetase. A topical  
compn. for reducing the rate and altering the character of mammalian  
hair growth comprises a nontoxic dermatol. acceptable  
vehicle and from 0.1 to 30 % based on the total wt. of the compn. of  
an org. inhibitor of L-asparagine synthetase, such as  
guanidinosuccinic acid.  
CT Hair preparations

L28 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 1996 ACS  
AN 1992:557401 HCAPLUS  
DN 117:157401  
TI Transglutaminase inhibitors as hair growth inhibitors  
IN Handelsman, Joseph H.; Shander, Douglas; Funkhouser,  
Margaret G.  
PA USA  
SO PCT Int. Appl., 12 pp.  
CODEN: PIXXD2  
PI WO 9211007 A1 920709  
DS W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP,  
KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, SD, SE, SU, US  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IT, LU, MC, ML, MR, NL, SE, SN, TD, TG  
AI WO 91-US9645 911219  
PRAI US 90-632126 901220  
DT Patent  
LA English  
AB The rate and character of mammalian hair growth is altered

by topical application to the skin of a compn. contg. an inhibitor of the transglutaminase. A topical compn. contained 5-(N-benzyloxycarbonyl-L-phenylalaninamido-methyl)-3-bromo-4,5-dihydroisoxazole 20, acetone 75, propylene carbonate 20, benzyl alc. 5%. The application of above compn. on hamster skin for 18 days inhibited the **hair** mass by 87.87%.

CT **Hair** preparations

L28 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1992:221336 HCAPLUS

DN 116:221336

TI Enzymic alteration of **hair** growth

IN Handelsman, Joseph H.; **Shander, Douglas**; Harrington, Eugene F.; **Ahluwalia, Gurpreet S.**

PA USA

SO PCT Int. Appl., 12 pp.

CODEN: PIXXD2

PI WO 9203140 A1 920305

DS W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MN, MW, NL, NO, PL, RO, SD, SE, SU, US

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IT, LU, ML, MR, NL, SE, SN, TD, TG

AI WO 91-US5721 910812

PRAI US 90-567018 900814

DT Patent

LA English

AB Mammalian **hair** growth is inhibited by application to the skin of an inhibitor of S-adenosylmethionine decarboxylase (I), alone or combined with an inhibitor of ornithine decarboxylase (II). Such compns. are useful for treatment of e.g. female hirsutism. Thus, a compn. contg. water 68, EtOH 16, propylene glycol 5, dipropylene glycol 5, PhCH<sub>2</sub>OH 4, propylene carbonate 2, 5'-deoxy-5'-[N-methyl-N-[2-(aminooxy)ethyl]aminoadenosine (I inhibitor) 5, and 2-(difluoromethyl)ornithine (II inhibitor) 5 parts, applied at 10 .mu.L/day topically to the shaved flank organ of golden Syrian hamsters, inhibited **hair** growth by 70.9%.

CT **Hair**

L28 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 1996 ACS

AN 1992:188094 HCAPLUS

DN 116:188094

TI Alteration of rate and character of **hair** growth by topical application of inhibitors of adenylosuccinate synthetase or aspartate transcarbamylase

IN **Ahluwalia, Gurpreet S.**

PA USA

SO U.S., 3 pp.

CODEN: USXXAM

PI US 5095007 A 920310

AI US 90-603999 901024

DT Patent

LA English

AB The rate and character of mammalian **hair** growth is altered by the topical application of inhibitors of adenylosuccinate synthetase or aspartate transcarbamylase. Topical treatment with a 10% soln. of L-alanosine, twice over a 24-h period, resulted in .apprx.49% inhibition of adenylosuccinate synthetase activity in hamster **hair** follicles.

CT **Hair**

CT **Hair** preparations

L28 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 1996 ACS .

AN 1992:158565 HCAPLUS

DN 116:158565

TI Alteration of rate and character of **hair** growth with .gamma.-glutamyl transpeptidase inhibitor

IN **Ahluwalia, Gurpreet S.**; **Shander, Douglas**;

Harrington, F. Eugene

PA Handelsman, Joseph H., USA

SO PCT Int. Appl., 9 pp.  
CODEN: PIXXD2  
PI WO 9200069 A1 920109  
DS W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP,  
KR, LK, LU, MC, MG, MN, MW, NL, NO, PL, RO, SD, SE, SU, US  
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,  
IT, LU, ML, MR, NL, SE, SN, TD, TG  
AI WO 91-US4427 910621  
PRAI US 90-542586 900625  
DT Patent  
LA English  
AB Mammalian **hair** growth is inhibited with .gamma.-glutamyl  
transpeptidase inhibitor. The flank organs of male Golden Syrian  
hamsters were treated topically with 6.0% acivicin. **Hair**  
growth was inhibited by 81.0%. Anthglutin was prepd. and used to  
inhibit **hair** growth.  
CT Mammal  
CT **Hair** preparations

L28 ANSWER 15 OF 16 HCAPLUS COPYRIGHT 1996 ACS  
AN 1986:558815 HCAPLUS  
DN 105:158815  
TI **Hair** growth modification  
IN **Shander, Douglas**  
PA Handelsman, Joseph H., USA  
SO PCT Int. Appl., 19 pp.  
CODEN: PIXXD2  
PI WO 8602269 A1 860424  
DS W: AU, DK, JP, NO  
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
AI WO 85-US2000 851010  
PRAI US 84-661019 841015  
DT Patent  
LA English  
AB Human **hair** growth, including beard **hair** in men,  
is modified by topical application of a compn. contg. an ornithine  
decarboxylase inhibitor in a carrier and optionally an antiandrogen  
material also. Ornithine decarboxylase controls proliferation of  
**hair** follicle matrix cells. Thus, an alc. soln. for topical  
application contained 2-(difluoromethyl)-2,5-diaminopentanoic acid  
2.2, progesterone 1.0, 17-.alpha.-allyltestosterone 1.0, propylene  
glycol 4.0, dimethicone 1.0, and SDA-40 alc. 90.8% by wt.  
CT **Hair**

L28 ANSWER 16 OF 16 HCAPLUS COPYRIGHT 1996 ACS  
AN 1985:528804 HCAPLUS  
DN 103:128804  
TI **Hair** growth modification with compositions containing  
5.alpha.-reductase inhibitors and/or cytoplasmic androgen receptor  
binders  
IN Kaszynski, Edwin G.; Breuer, Miklos M.; **Shander, Douglas**;  
Usdin, Vera R.; Van der Lee, Hermes  
PA USA  
SO PCT Int. Appl., 17 pp.  
CODEN: PIXXD2  
PI WO 8502543 A1 850620  
DS W: AU, DK, JP, NO  
RW: CH, DE, FR, GB, NL, SE  
AI WO 84-US1977 841130  
PRAI US 83-560726 831212  
DT Patent  
LA English  
AB The rate and the character of androgen-stimulated **hair**  
growth in males are altered by the topical administration of compns.  
contg. 5.alpha.-reductase [9081-34-9] inhibitors and cytoplasmic  
androgen receptor binding agents either individually or in  
combination. Thus, an aerosol foam was prepd. from a mixt. of  
progesterone [57-83-0] 2.0, cyproterone acetate [427-51-0] 0.2,  
cetyl alc. 5.2, and Myrj 52 3.0% and combining this with a mixt. of

propylene glycol 4.0, water 85.4, and preservative 0.2%. An aerosol was packaged by using 7 parts hydrogen propellant A to 93 parts of the concn. The efficiency of the comps. in reducing the flank organ **hair** mass in adult intact male hamsters was demonstrated by administering progesterone and cyproterone acetate at 500 .mu.g and 1000 .mu.g/cm2, resp.

CT Progestogens  
CT Androgens  
CT **Hair**

=> d que 162

L61 20 SEA FILE=JICST-EPLUS MYCOPHENOL? OR MYCO PHENOL?  
L62 0 SEA FILE=JICST-EPLUS HAIR AND L61

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FILE 'JAPIO' ENTERED AT 14:10:42 ON 25 MAR 96  
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FILE LAST UPDATED: 06 MAR 96 <960306/UP>

=> d que 160

L59 33 SEA FILE=JAPIO MYCOPHENOL? OR MYCO PHENOL?  
L60 1 SEA FILE=JAPIO HAIR AND L59

=> d 160 bib ab

L60 ANSWER 1 OF 1 JAPIO COPYRIGHT 1996 JPO and Japio  
AN 95-112923 JAPIO  
TI NEW **HAIR** GROWING AGENT  
IN TAMURA GAKUZO; ANDO KUNIO; NAKAMURA TETSUO  
PA IMMUNO JAPAN:KK, JP (CO)  
PI JP 07112923 A 19950502 Heisei  
AI JP 93-289710 (JP05289710 Heisei) 19931015  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 95, No. 5  
AB PURPOSE: To obtain a **hair**-growing agent having trichogenous effect on Mammalia, free from side effects and effective in preventing epilation of human and animal **hair** which occurs from various causes.  
CONSTITUTION: This medicinal composition for **hair** growing contains 0.01-6wt.%, preferably 0.05-1wt.% of **mycophenolic** acid of formula I or a **mycophenolic** acid derivative of formula II (R1 is H or OH; R2 is H or methyl; R3 is H or acetyl). The preparation form of the composition is selected from one kind of spraying agents, aerosols, liquid agents, lotion, cream and ointments. The composition can rapidly stop a state in which **hair** abnormally epilates by premature alopecia, alopecia areate, etc., and restore **hair** to normal state in extremely short time. Since the composition prevents epilation of **hair** of pets such as dogs and cats and promotes trichogenous action, pet's **hair** can rapidly and uniformly be grown by applying the preparation to the part from which **hair** epilates.